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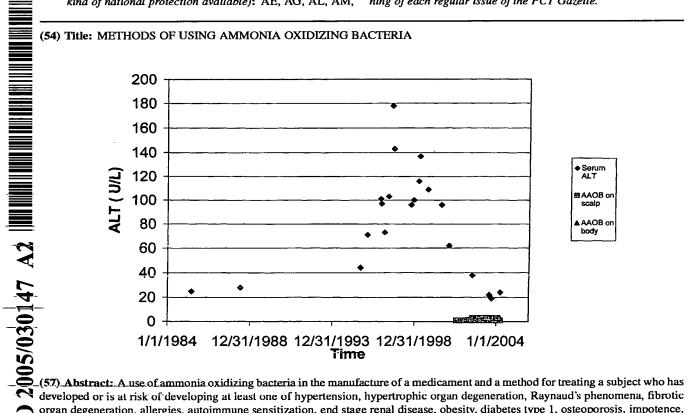
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developed or is at risk of developing at least one of hypertension, hypertrophic organ degeneration, Raynaud's phenomena, fibrotic organ degeneration, allergies, autoimmune sensitization, end stage renal disease, obesity, diabetes type 1, osteoporosis, impotence, hair loss, cancer, aging, autism, and an autism spectrum symptom comprising positioning ammonia oxidizing bacteria close proximity of a surface of the subject, of nitric oxide and nitric oxide precursors using ammonia oxidizing bacteria.